



Millennium Science Complex

Bigler Ave., University Park, PA

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Building Stimulus

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“Lighting Proposal”

Executive Summary

The following proposal memo, the spaces to be redesigned will be discussed in detail. The spaces correlate to corresponding spaces to be redesigned by the Building Stimulus B.I.M./I.P.D thesis team. One space was picked to be used for multiple schematic designs and another was chosen to look at Flynn's studies of psychological impressions of light. Daylighting implications will be overviewed on each facade wall, as there are continuous windows that wrap the building.



Spaces

Space One: Three Schematic Design Concepts

Space one is a conference room located in the third floor. Both the Material and Life Science sides of the building have identical rooms, each without exterior windows. They contain a removable partition wall for larger conference meetings. Shelving units are located along the hallway side of the rooms. Each room is roughly 22'x22' in dimension.

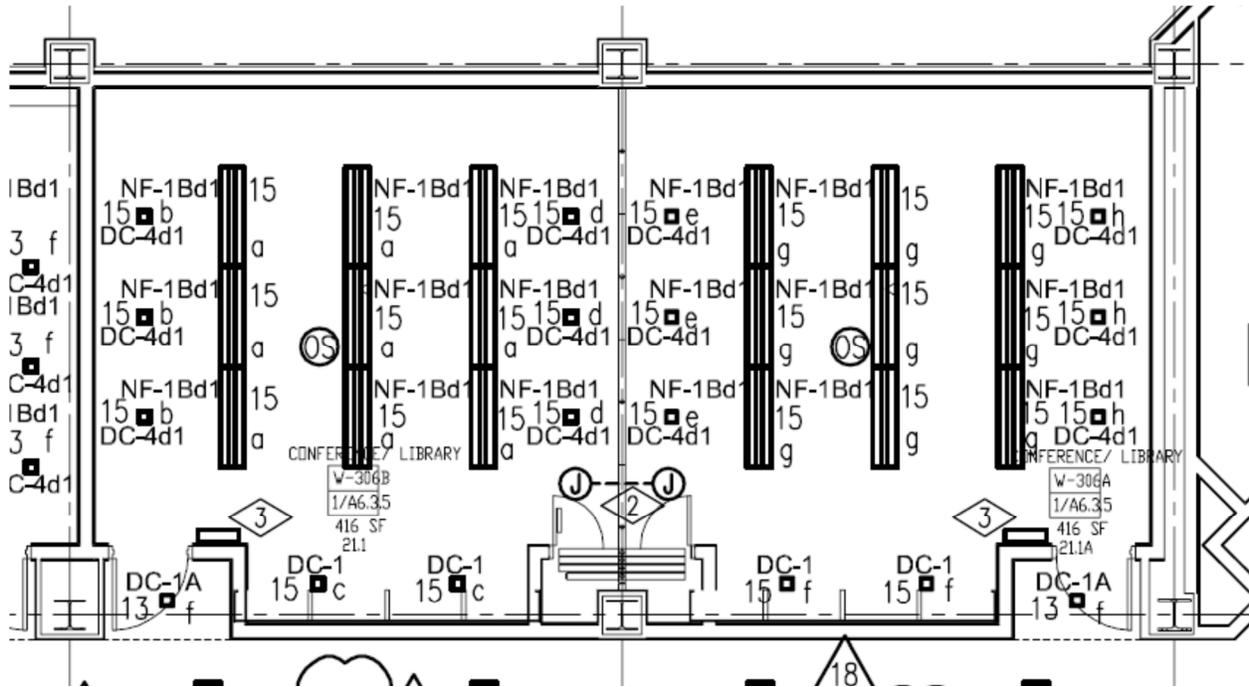


Figure 1: Space 1 - Rooms W-306A&B "Conference/Library" (Life Science side).

Space Two: Psychological Impressions

Space two is a cafe/lounge located on the third floor of the cantilever. Dining areas and a small cafe allow students to relax and quietly drink a cup of espresso while studying. The strip window views Mt. Nittany unobstructed, and faces roughly due east. This area will be heavily day lit for the majority of the mornings. the space is roughly 66'x66'. Psychological impressions will be studied to create different lighting effects for different activities that



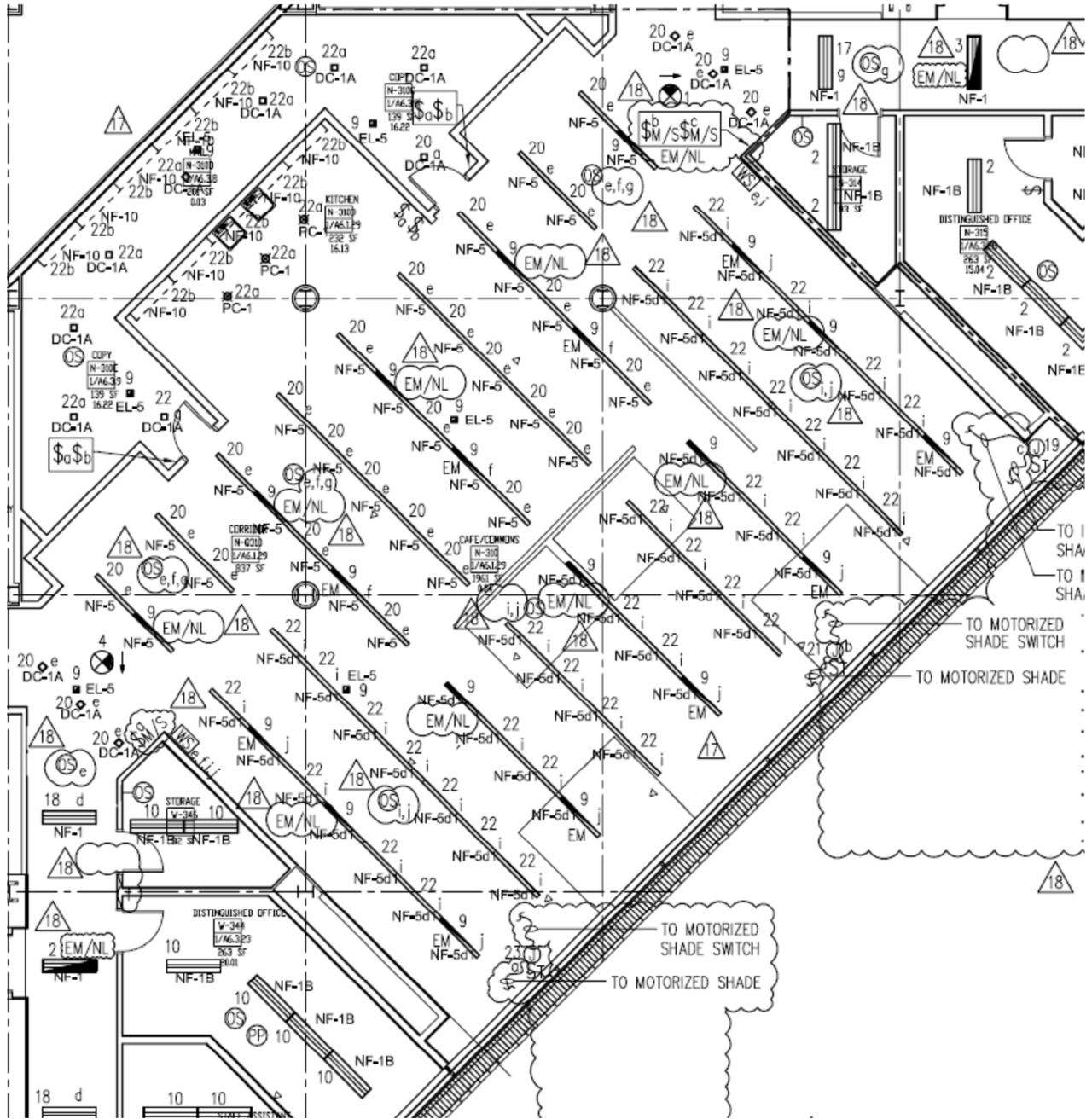


Figure 2: Room N-300 “Cafe/Lounge.”



Space Three:

The third space to be evaluated will be the exterior space under the cantilever. This is the main entrance to the Millennium Science Complex, both the Life & Material Science side. The exterior area is a green circulation space atop the ultra quiet labs in the basement. Surfaces of exterior walls are the same brick precast that encases the rest of the building. the underside of the cantilever is clad with a dark orange painted metal panel. A “skylight” helps illuminate the space during the day.

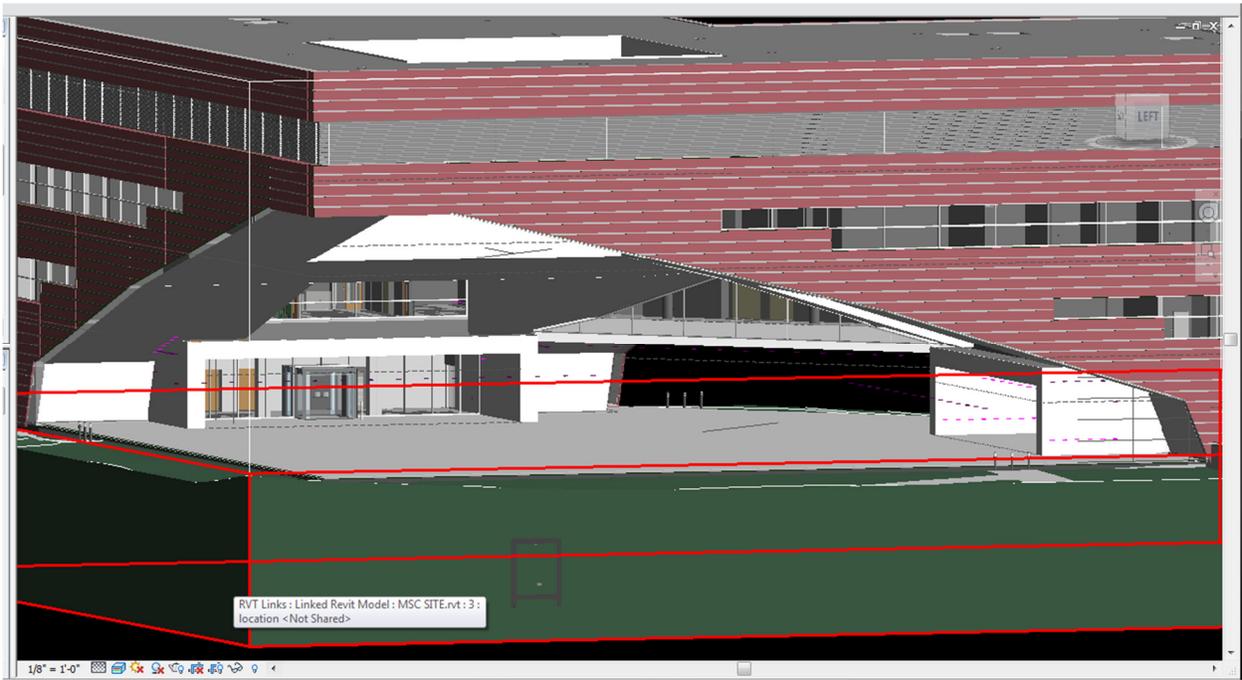


Figure 3: Revit isometric view of under-cantilever space.

